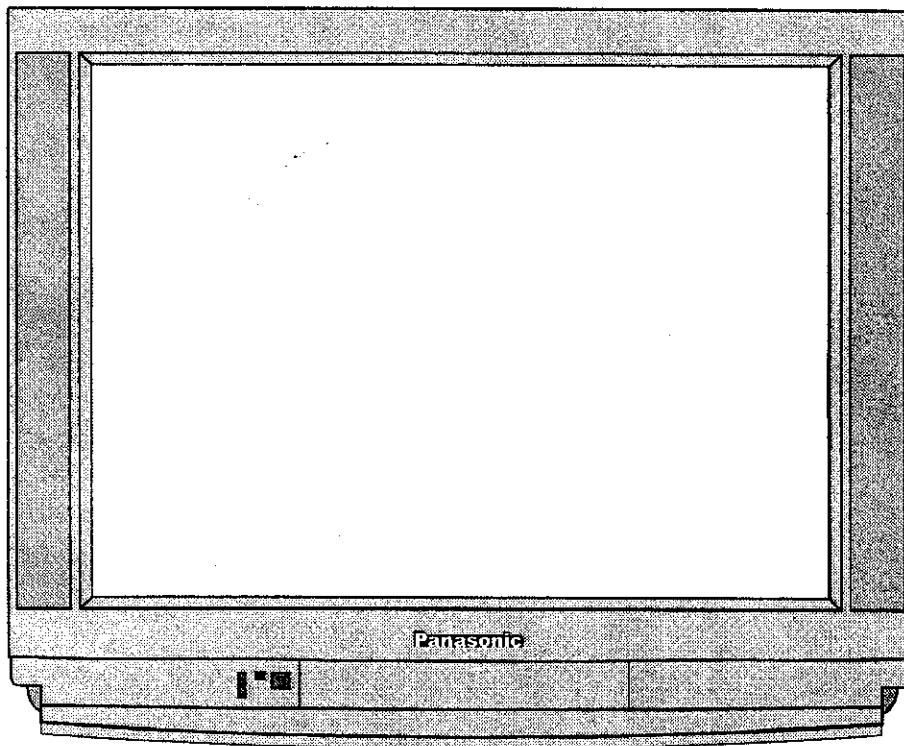


Panasonic

Stereo Colour Television with Teletext

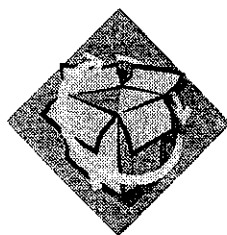
TX-80V03A



Operating Instructions

Please read these operating instructions completely before operating this set and retain the booklet for future reference.

Panasonic and the Environment



Reduce, Reuse, Recycle

Dear Panasonic Customer,

Welcome to the Panasonic family. We hope that you will have many years of enjoyment from your new Colour Television.

Thank you for choosing to buy this Panasonic Colour Television. It was assembled at our Panasonic Television factory in Penrith, Australia under an internationally accredited quality and environmental system. You can therefore be assured that you have purchased a quality product incorporating features to reduce environmental impacts.

As part of our commitment to conserving natural resources we provide the following information about the reuse, recycling and disposal of your packaging.

Cardboard

Cardboard comprises up to 75% of the packaging in your Panasonic TV and all of our cartons are manufactured with optimum levels of recycled fibre.

1. Reuse

Cartons can be readily folded and packed flat for storage and made up when required for later use.

2. Recycling

If you, or someone else has no further use for the carton, it can be flattened or cut up and placed into the recycle bin or service provided by your local council (applicable for most parts of Australia).

By recycling the cardboard you are benefiting the environment by reducing waste to landfill and reducing the dependence on virgin forest timbers for paper fibre.



Plastics

Panasonic is reducing the number of different plastics used in both the Television and its packaging.

Unfortunately you are unable to include the type of plastic used in Television packaging in the curbside-recycling program. Polystyrene foam and other plastic will need to be placed in your general waste bin.



About Panasonic

Panasonic Australia and Panasonic AVC Networks Australia Pty. Ltd. are signatories to the National Packaging Covenant. The Covenant is an agreement between Governments and member companies aimed at reducing the amount of waste going to landfill through Reducing, Reusing and Recycling. Panasonic Australia and Panasonic AVC Networks Australia Pty. Ltd. contribute to the industry transitional funding arrangements to support curbside recycling in Australia.

Important Information

Warning

This television is very heavy (see page 31). Most of the weight is at the front of the television. Although the television has been tilt tested and meets current Australian and International Standards, we recommend that great care be taken when positioning the television.

- * Do not allow the front of the set to overhang the stand or cabinet.
- * Make sure that the stand or cabinet is flat and does not lean forward.
- * Do not allow anyone to climb or sit on the television.
- * Do not place any heavy weights on the television.

Picture Quality



All televisions are affected by Magnetic Interference. Magnetic interference may come from such things as unshielded motors, moving the TV while it is switched ON, turning off a vacuum cleaner too close to the TV, lightning strikes nearby or many other things. The interference shows up as *coloured patches* that appear while the TV is switched ON.

A typical result may look like the picture shown.

- * Your Panasonic Television is designed to overcome this with the inclusion of a demagnetising (degaussing) function.
- * To activate this feature, simply switch your Television OFF with the Power On/Off Switch (not with the remote control) for 30 minutes and then switch it back ON.
- * If the television is to be left unattended for extended periods (several days or more), turn the power off to the unit. DO NOT leave in Standby mode.
- * This will ensure that you enjoy the picture clarity as it was meant to be.

Customer's Record

The serial number of this television can be found on its rear cover and on the carton. It is recommended that you note the serial number and other details in the space provided and retain this booklet in a safe place as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model No.	TX-80V03A
Serial No.	PA -
Purchase Date	
Purchased From	

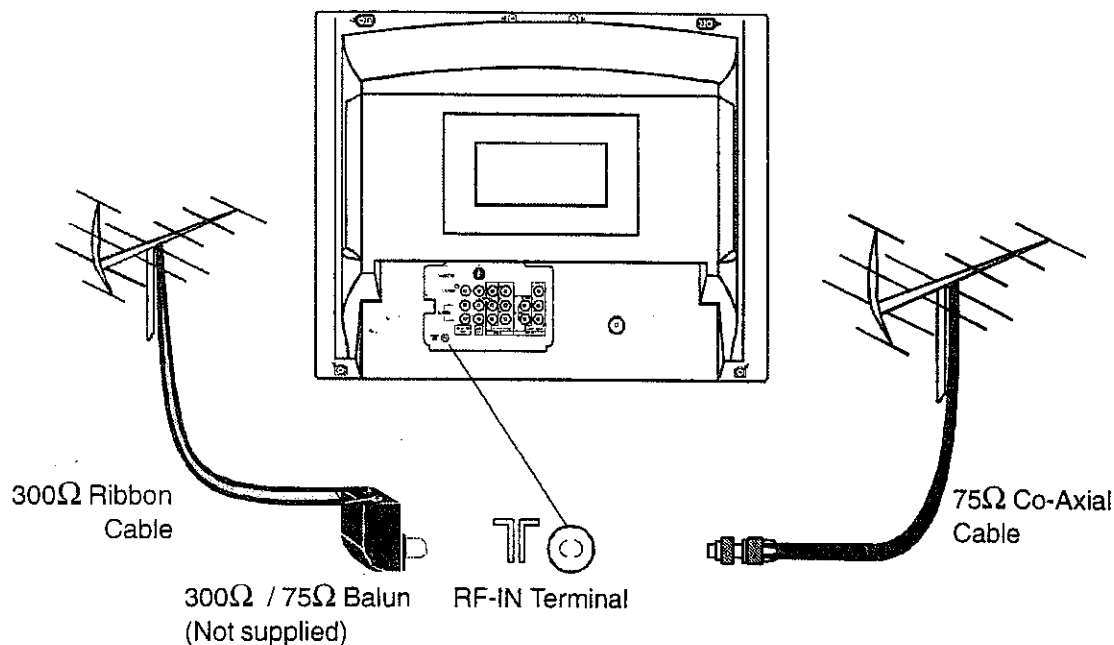
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Getting Started

Connect the Aerial

The RF (Aerial) Input impedance of this television is 75Ω. If your aerial lead is 300Ω ribbon (two wires separated by a flat plastic sheet) you will require a 300Ω/75Ω Balun in order to connect your aerial to the television.



For your safety any external aerial should be installed by a reputable qualified installer and should comply with Australian Standard AS1417.1.

In New Zealand the installation should comply with International Standard IEC597-1.1.

Connect the Power Plug



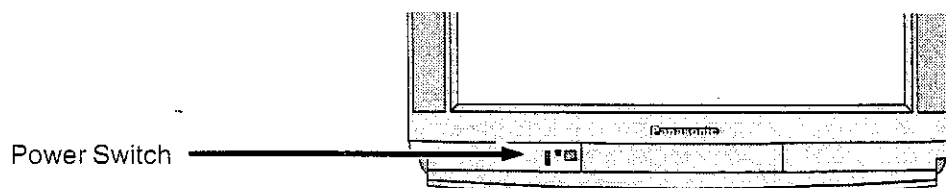
This television is designed for the Australian Standard Mains Voltage of 240V 50Hz and the New Zealand Standard Mains Voltage of 230V 50Hz.

NOTE:

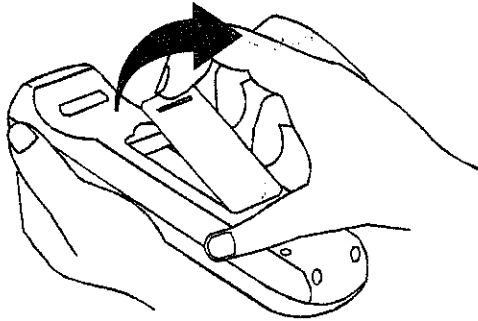
If the television is not going to be used for an extended period, remove the power plug from the wall outlet.

Turn on the Television

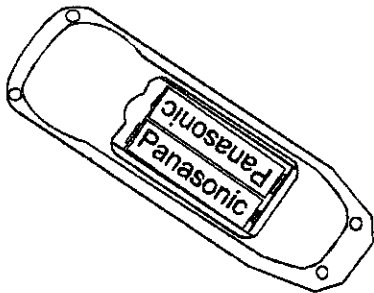
Push the Power Switch to turn the television ON. Sit back and enjoy your new Panasonic television.



Battery Installation and Replacement

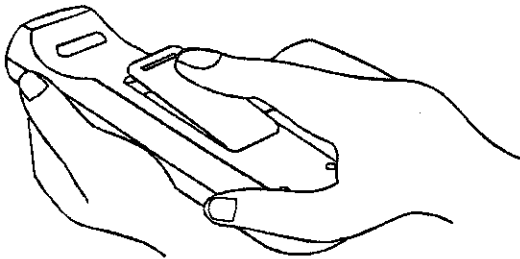


Place your nail under the battery cover in the semicircular cutout. Apply a slight upward pressure and the cover will be removed.



Insert the batteries ensuring the correct polarity. The polarity is identified by the “+” and “-” symbols on the battery and the “+” and “-” symbols on the battery compartment. The springs inside the battery compartment connect to the negative terminal of the battery.

Two “AA” size batteries



Fit the battery cover and push it down until it “clicks” into place.

Battery Precautions

- * **Do Not** use rechargeable batteries. Differences in size and performance may cause incorrect operation.
- * **Do Not** mix battery types (Alkaline with zinc-carbon etc.)
- * **Do Not** mix old and new batteries. Replace both batteries at the same time.
- * **Do Not** attempt to recharge batteries.
- * **Do Not** short circuit batteries.
- * **Do Not** disassemble batteries.
- * **Do Not** heat or burn batteries.

Television Control Panel Buttons

BUTTON	WHAT IT DOES
--------	--------------

POWER

POWER

This button is used to turn the television on and off. The Indicator light (red) will be on whenever the television is ON or in Stand-By. The light will go out when the television is turned OFF using the power button.

PRE.

PRE.

This stands for preset. Pressing this button allows you to tune the television, change the sound and colour systems and change the SKIP function on or off. Each time the button is pressed the next option is selected. The options are displayed in the following sequence: -

AUTO TUNE	Refer to Page 21
MANUAL TUNE	Refer to Page 21
POS. SETUP	Refer to Page 22

TV/AV

TV/AV

This button is used to select the normal broadcast television stations or the AV (Audio/Video) inputs.



VOLUME DOWN

This button is used to decrease the volume level. The level is indicated on the screen by a green bar and a number. The volume level range is 0 to 100.



VOLUME UP

This button is used to increase the volume level.



PROGRAMME NUMBER DOWN

Pressing this button selects the next lower Programme Number in sequence. Programme Numbers which have been "Skipped" (See page 24) will be bypassed when this button is used.



PROGRAMME NUMBER UP

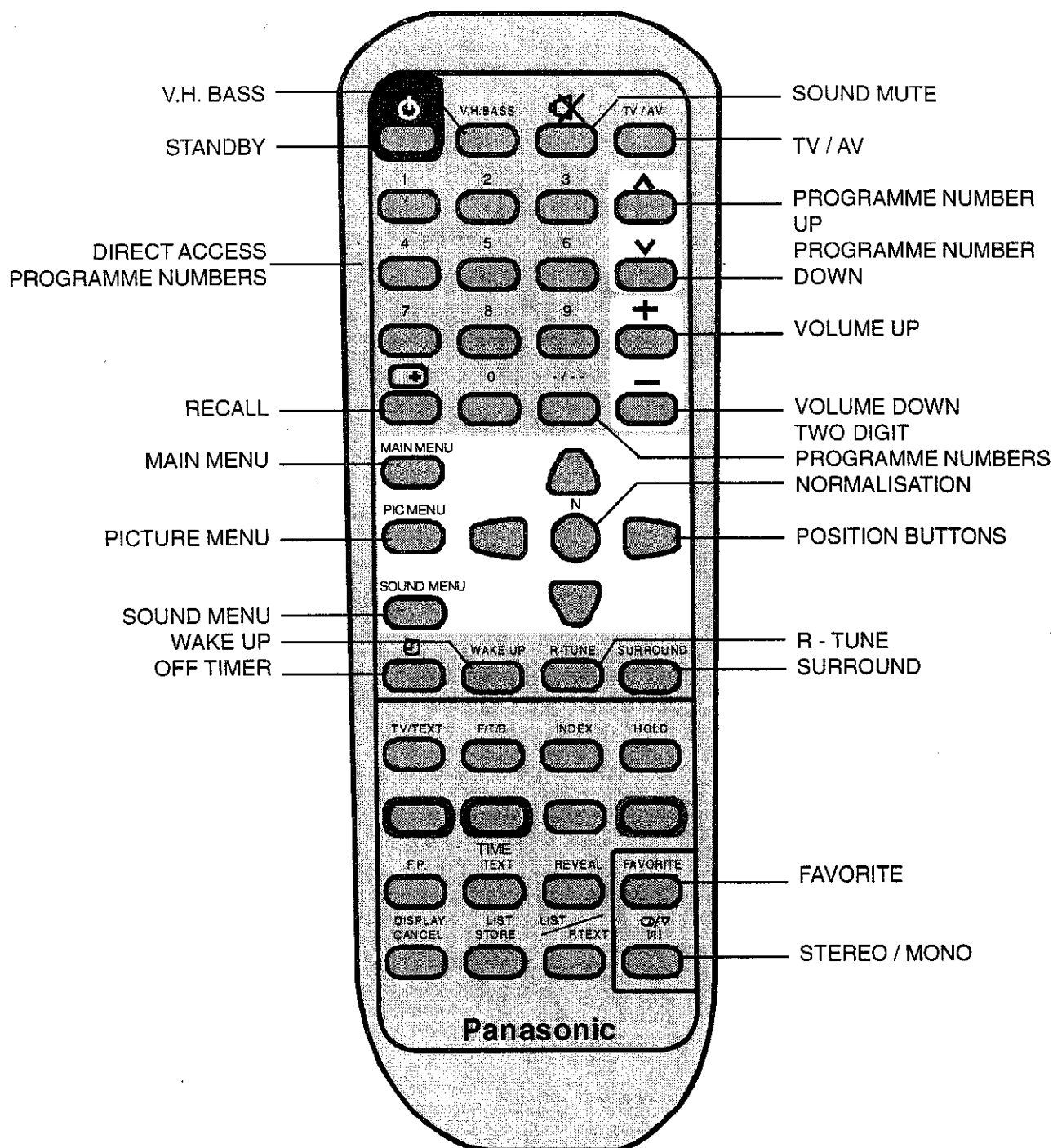
Pressing this button selects the next higher Programme Number in sequence. Programme Numbers which have been "Skipped" (See page 24) will be bypassed when this button is used.

Note:

When the television is in Stand-By it is possible to turn it back on by pressing the Programme Number UP or DOWN Button.

Remote Control Television Operation

Remote Control Television Buttons



For details of Teletext remote control operation, please refer to page 19.

Remote Control Television Operation

BUTTON WHAT IT DOES

V.H.BASS

VIRTUAL HYPER BASS

This button is used to turn the Virtual Hyper Bass (VHB) on and off. The VHB will reproduce lower and heavy bass sounds by boosting the low frequency.

STAND-BY

The remote control button is used to turn the television into Stand-by mode. When the television is in Stand-By it is possible to turn it back on by pressing this remote control Power Button, the Programme Number UP Button, the Programme Number DOWN Button or any of the direct Programme Number Buttons.

0 - 9

DIRECT PROGRAMME NUMBER SELECTION

Single Digit Programme Numbers (0 to 9) can be accessed directly by pressing the corresponding number on the Remote Control.

RECALL

This button operates in three stages.

- 1 - Pressing this button will display AV, Programme Number and Off-Timer setting (if on). After about 5 seconds it automatically switches to stage 2.
- 2 - Pressing the button again displays the Programme Number or the AV Number.
- 3 - Pressing for the third time cancels the recall function and removes the text being displayed on the screen.

MAIN MENU

MAIN MENU

Please refer to pages 12 to 18 for MAIN MENU OPERATION.

PIC MENU

PICTURE MENU

The Pic. Menu Button allows you to select one of three different picture modes (Dynamic, Standard and Cinema).

- | | |
|----------|--|
| DYNAMIC | For viewing in brightly lit rooms. This menu selects higher than normal levels of Brightness and Contrast. |
| STANDARD | For viewing in normal (evening lighting) environments. This menu selects the normal levels of Brightness and Contrast. |
| CINEMA | Used to simulate the presence in a cinema environment when watching movies. |

SOUND MENU

SOUND MENU

The Sound Menu Button allows you to select one of five different sound modes (Music, News, Cinema, Sports and Personal).

- | | |
|----------|--|
| MUSIC | Used to recreate the acoustic feel at a live concert. It adds excitement to music videos and soundtracks and provides a powerful sound presence. |
| NEWS | Used to enable speech to be heard more clearly. Perfect for news, documentaries and talk shows etc. |
| CINEMA | Recreates the cinematic sound effects. This setting provides clear and crisp dialogue. |
| SPORTS | Creates the impression of being at a live game. |
| PERSONAL | Allows you to set the Equalizer and balance to suit your own personal taste. |

Remote Control Television Operation

BUTTON WHAT IT DOES

WAKE UP

WAKE UP

The television can be programmed to turn itself ON after a period of time.

1. Press the Wake Up Button.
2. Press the Left (?) or Right (?) Buttons to set the time delay.
The Left Button will decrease the time by ten minutes each time you press it. The Right Button will increase the time by ten minutes each time you press it.
3. After setting the Wake Up Timer, switch the television to Stand-By. The power indicator will blink if the Wake Up Timer has been set correctly.
4. When the Wake Up time has elapsed, the television will turn ON.
The Off-Timer will be set to 90 minutes. "WAKE UP TIMER" and the Off-Timer will be displayed at the top of the screen. (Press any button to cancel the display).

Notes:

1. The wake up timer can be set for up to 12 hours.
2. When the Wake Up Timer turns the set on, the Off-Timer will automatically switch it off again after 90 minutes, unless it is cancelled. Press any button to cancel the Off-Timer.
3. The Wake Up Timer can be cancelled by:
 - switching the main power off, or
 - setting the timer to OFF using the Left and Right Buttons, or
 - pressing the Normalise Button while the wake up timer On Screen display is showing.



OFF-TIMER

Pressing the Off-Timer allows the television to be preset to turn off after a period of time. The timer settings (in minutes) are 30, 60, 90, AUTO and 0. Setting the Off-Timer to AUTO will cause the television to turn off (to Stand-by) five minutes after the television broadcast station you are tuned to stops transmitting. Setting the Off-Timer to 0 cancels the Off-Timer function.



MUTE

Pressing this button reduces the sound from the television to nil. Pressing the button again returns the sound to the original setting. Pressing either Volume Up (+) or Down (-) will also restore the volume level setting.

TV/AV

TV/AV

This button is used to select the normal broadcast television stations or the AV (Audio/Video) inputs.

▲ ▼

PROGRAMME NUMBER UP and DOWN

Pressing these buttons selects the next higher or lower Programme Number in sequence. Programme Numbers which have been "Skipped" (See page 24) will be bypassed when this button is used.

- +

VOLUME UP and DOWN

These buttons are used to increase or decrease the volume output level from the television. The volume level is indicated on the screen as a green bar and as a number (0 ~ 100).

Remote Control Television Operation

BUTTON WHAT IT DOES

- / - -

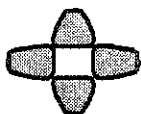
TWO DIGIT PROGRAMME NUMBER SELECTION

To directly access Programme Numbers 10 to 99, press the "- / - -" Button followed by the two digits required.

N

NORMALISATION

The Normalisation Button is used to reset the television to factory-preset levels for Colour, Sharpness, Contrast, Brightness, Tint (NTSC only) and Sound. The button will only operate if the relevant menu is displayed on the screen.



FUNCTION / POSITION BUTTONS

These buttons are used with the MAIN MENU button to select and change features of the television.

R - TUNE

R - TUNE

This button is used to swap between the channel you are now watching and the last channel you were watching. This function does not work with AV.

FAVORITE

FAVORITE

This button allows you to set up a favorite channel group. You can put up to 9 channels into the group. The favorite channel group is selected by the FAVORITE button. Use the FAVORITE button to switch between channels in the group. Please refer to page 17.

SURROUND

SURROUND

Surround sound is designed to recreate the spatial effect of a movie theatre or concert hall. It brings added depth to the sound from your television.



STEREO/MONO

Pushing the button changes the mode from Stereo to Mono and back again. Normally the television will detect whether the broadcast signal is Mono or Stereo and will set the mode accordingly. If the Stereo signal is weak or if the receiving conditions are not the best, it is recommended that the Mono mode be manually selected.

II / I

BILINGUAL

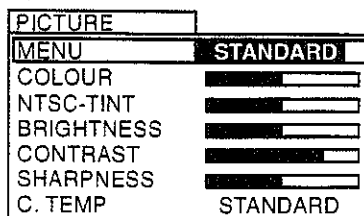
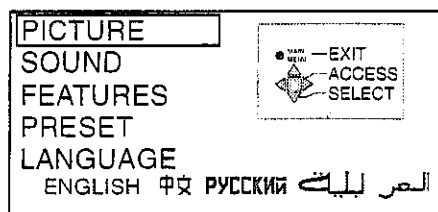
If a broadcast station is broadcasting in two languages, this button can switch between the one language and another.

Note:

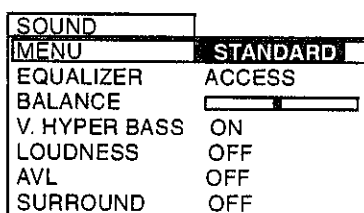
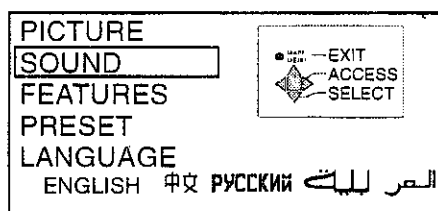
Bilingual sound is not currently available in Australia.

Main Menu

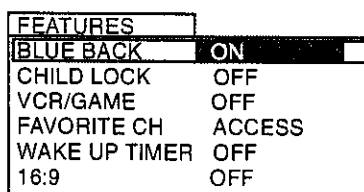
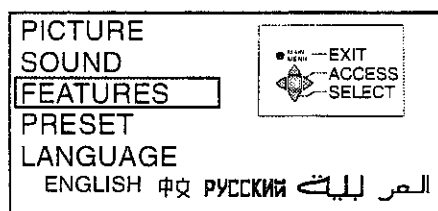
Press the MAIN MENU button. Use the Up (▲) or Down (▼) Button to move between menu items. Use the Left (◀) or Right (▶) Button to select the function to adjust.



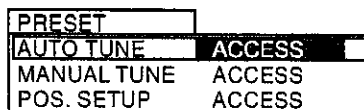
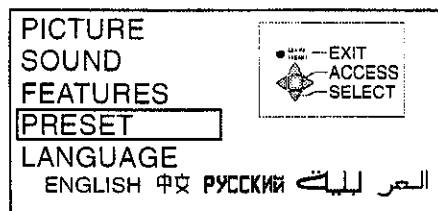
Refer Page 13



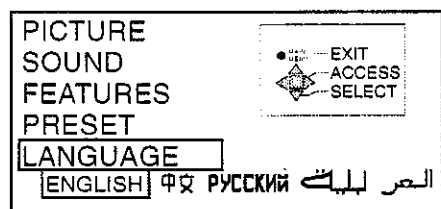
Refer Page 14



Refer Page 16

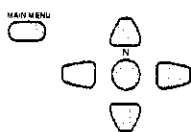
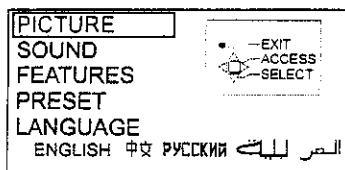


Refer Page 17

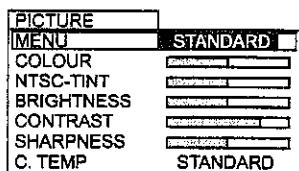


Refer Page 17

Picture Menu



1. Press the "MAIN MENU" Button.
2. Highlight the "PICTURE" menu by pressing the Up (Δ) or Down (▽) Button. Use the Left (◀) or Right (▶) Buttons to select the Picture options.
3. Highlight the function you want to change by pressing the Up (Δ) or Down (▽) Button. Use the Left (◀) or Right (▶) Buttons to select the function.
4. Use the Left (◀) or Right (▶) Buttons to make adjustments.



Picture Menu	Function
DYNAMIC	For viewing in brightly lit rooms. This menu selects higher than normal levels of Brightness and Contrast.
STANDARD	For viewing in normal (evening lighting) environments. This menu selects the normal levels of Brightness and Contrast.
CINEMA	Used to simulate the presence in a cinema environment when watching movies.

Note:

1. You can change the level for each function (Colour, NTSC-Tint, Bright, Contrast and Sharpness for each picture menu option.
2. Picture menu levels can be set for TV, AV1, AV2 and AV3 modes.

Item	Effect	Indicator
COLOUR	Less More	COLOUR 50
NTSC-TINT	Reddish Greenish	NTSC-TINT 50
BRIGHT	Darker Brighter	BRIGHTNESS 50
CONTRAST	Less More	CONTRAST 70
SHARPNESS	Softer Sharper	SHARPNESS 40
C. TEMP	Change	Standard Cool Warm

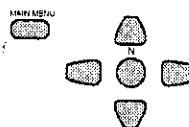
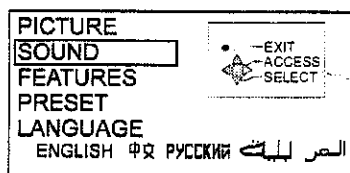
Note:

1. The NTSC-Tint adjustment can only be made if an NTSC picture is being viewed.
2. The C. TEMP control allows you to change the White balance setting between Standard, Cool and Warm.

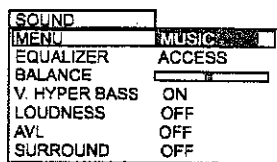
Normalisation **N**

Pressing the Normal (N) Button on the remote control, when the Picture Menu is displayed will return all picture settings to the factory-preset levels. This is called "Normalisation".
Normalisation **will not** occur if the Picture Menu is not displayed when the Normal (N) Button is pressed.

Sound Menu



1. Press the "MAIN MENU" Button.
2. Highlight the "SOUND" menu by pressing the Up (Δ) or Down (▽) Button. Use the Left (◀) or Right (▶) Buttons to select the Picture options.
3. Highlight the function you want to change by pressing the Up (Δ) or Down (▽) Button. Use the Left (◀) or Right (▶) Buttons to select the function.
4. Use the Left (◀) or Right (▶) Buttons to make adjustments.



Option	Function
MUSIC	Used to recreate the acoustic feel at a live concert. It adds excitement to music videos and soundtracks and provides a powerful sound presence.
NEWS	Used to enable speech to be heard more clearly. perfect for news, documentaries and talk shows etc.
CINEMA	Recreates the cinematic sound effects. This setting provides clear and crisp dialogue.
SPORTS	Creates the impression of being at a live game.
PERSONAL	Allows you to set the Equalizer and balance to suit your own personal taste.

Item	Effect	Indicator / Operation
EQUALIZER	◀ Change ▶	
BALANCE	◀ Left Right ▶	BALANCE
V.HYPER BASS	◀ Off On ▶	The Virtual Hyper Bass (VHB) reproduces lower and heavy bass sounds by boosting the low frequency. The VHB can be turned on and off.
LOUDNESS	◀ Cut Boost ▶	Used to increase the Bass level at low volume settings.
AVL	◀ Off On ▶	Limits the maximum volume level. It eliminates variations in volume levels such as quiet speech followed by loud special effects in movies etc.
SURROUND	◀ Change ▶	

Normalisation

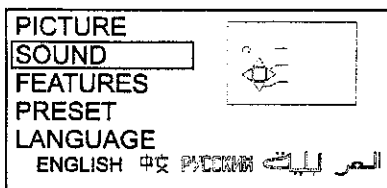
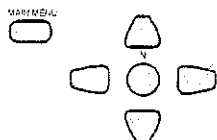


Pressing the Normal (N) Button on the remote control, when the Sound Menu is displayed will return all sound settings to the factory preset levels. This is called "Normalisation".

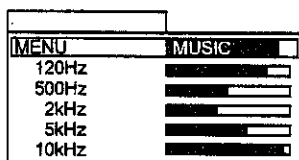
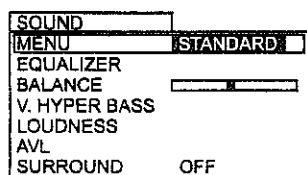
Normalisation **will not** occur if the Sound Menu is not displayed when the Normal (N) Button is pressed.

Equalizer

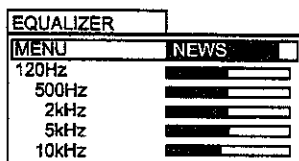
The EQUALIZER option allows you to adjust the sound to suit your own personal taste. Instead of just a Tone or Bass and Treble adjustments the Equalizer allows you to make adjustments at different frequency settings.



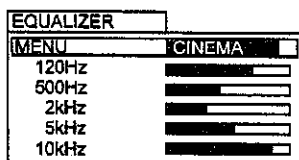
1. Press the "Main Menu" Button.
2. Highlight the "SOUND" menu by pressing the Up (Δ) or Down (▽) Button. Use the Left (◀) or Right (▶) Buttons to select the Sound options.
3. Highlight "EQUALIZER" by pressing the Up (Δ) or Down (▽) Button and press the Left (◀) or Right (▶) Button.
4. Use the Up (Δ) or Down (▽) Buttons to select the "EQUALIZER" frequency to change.
5. Use the Left (◀) or Right (▶) Buttons to change the frequency setting.



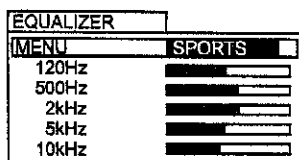
120Hz
This is a low frequency adjustment. Used for Bass and low frequency sound effects such as rumbling noises etc.



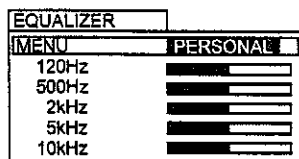
500Hz
This is a mid range frequency adjustment. Mainly used to adjust speech levels.



2kHz
This is a low to mid range frequency adjustment.



5kHz
This is a mid to high range frequency adjustment.



10kHz
This is a high frequency adjustment. Used for treble and high frequency sound effects such as high pitched engine noises etc.

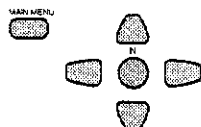
Normalisation **N**

Pressing the Normal (N) Button on the remote control, when the Sound Menu is displayed will return all sound settings to the factory-preset levels. This is called "Normalisation".

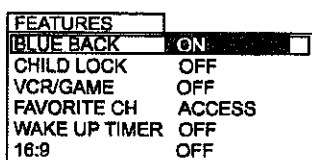
The Normalisation button has no effect on the PERSONAL settings.

Normalisation **will not** occur if the Sound Menu is not displayed when the Normal (N) Button is pressed.

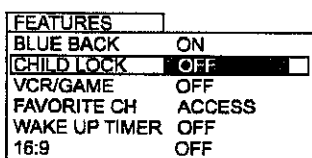
Features Menu



1. Press the "Main Menu" Button.
2. Highlight the "FEATURES" menu by pressing the Up (▲) or Down (▼) Button. Use the Left (◀) or Right (▶) Buttons to select the Feature options.
3. Highlight the option to be changed by pressing the Up (▲) or Down (▼) Button.
4. Use the Left (◀) or Right (▶) Buttons to change the option.

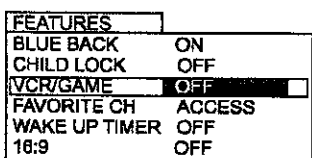


BLUEBACK replaces the annoying "static" with a blue background whenever the television is not tuned to a station or there is no input signal. The volume is also muted. The left and right function buttons are used to switch blueback ON and OFF.



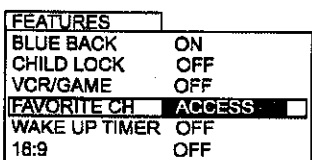
CHILD LOCK allows you to "lock out" a channel to prevent a child from watching a particular programme. Select the channel to be locked before pressing the Main Menu button. Use the left and right function buttons to switch child lock ON and OFF.

* See note below.



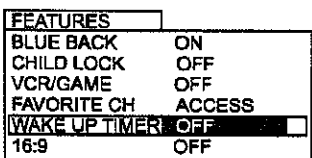
VCR/GAME

Reproduction of irregular signals such as certain video games or some rental videotapes may be improved by turning the VCR/GAME feature On. The left and right function buttons are used to switch VCR/GAME ON and OFF.



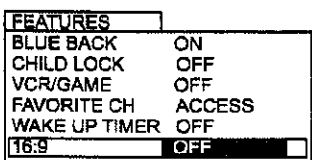
FAVORITE CH

This button allows you to store up nine programmes in preferred channel positions. Please refer to page 17 for more information.



WAKE UP TIMER

The television can be programmed to turn itself ON after a period of time. Please refer to page 10 for more information.



16:9

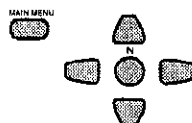
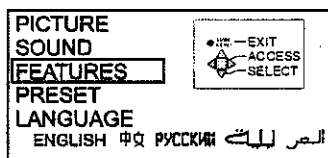
Setting this option to ON allows the picture to automatically go into 16:9 mode when a wide screen picture is received. If it is set to OFF the picture will always be in 4:3 mode.

* **Important Note:** If any of the channels has the child lock turned on you will not be able to use the front panel PRE Button. If the PRE. Button is pressed the Child Lock symbol will be displayed and will blink for a while.

Favorite CH Operation

This button allows you to store up to 9 programmes in preferred location numbers.

Adding Channels to Favorite CH



1. Press the "Main Menu" Button.
2. Highlight the "FEATURES" menu by pressing the Up (▲) or Down (▼) Button. Use the Left (◀) or Right (▶) Buttons to select the Feature options.
3. Highlight "FAVORITE CH" by pressing the Up (▲) or Down (▼) Button then press the Left (◀) or Right (▶) Button.
4. Press the Left (◀) or Right (▶) Button to select the favorite channel.

FEATURES	
BLUE BACK	ON
CHILD LOCK	OFF
VCR/GAME	OFF
FAVORITE CH	ACCESS
WAKE UP TIMER	OFF
16:9	OFF

FAVORITE CH		
1: --	2: --	3: --
4: --	5: --	6: --
7: --	8: --	9: --

5. Key in your preferred channel number. You can use the direct access numbers (0 ~ 9) on the remote control, the position Up and Down buttons on the remote control or the Channel Up or Down buttons on the front panel.
6. After completing the preferred channels setting press the MAIN MENU button three times to return to normal viewing.
7. To view FAVORITE CH, press the FAVORITE button on the remote control.

Adding Channels to Favorite CH

1. Press the "Main Menu" Button.
2. Highlight the "FEATURES" menu by pressing the Up (▲) or Down (▼) Button. Use the Left (◀) or Right (▶) Buttons to select the Feature options.
3. Highlight "FAVORITE CH" by pressing the Up (▲) or Down (▼) Button then press the Left (◀) or Right (▶) Button.
4. Press the Left (◀) or Right (▶) Button to select the number to be cancelled.
5. Press the Normal (N) button to cancel the setting
6. Press the MAIN MENU button three times to return to normal viewing.

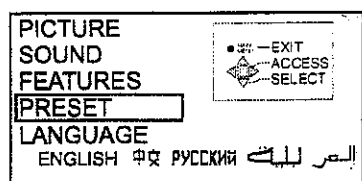
Adding Channels to Favorite CH

When you press the FAVORITE Button only those Programme Numbers you have selected will be shown. No other programmes will be selected.

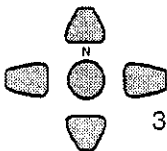
Note:

1. FAVORITE CH is not available in text mode.
2. All FAVORITE CH entries will be reset after Auto Tune (page 21).

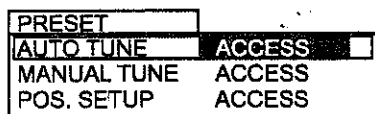
Preset



MAIN MENU



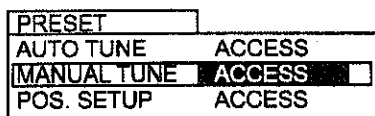
1. Press the "Main Menu" Button.
2. Highlight the "PRESET" menu by pressing the Up (▲) or Down (▼) Button. Press the Left (◀) or Right (▶) Buttons.
3. Use the Up (▲) or Down (▼) Buttons to select the Option you want.
4. Use the Left (◀) or Right (▶) Buttons to make changes the Option.



AUTO TUNE

This is used to automatically tune the television to all local stations.

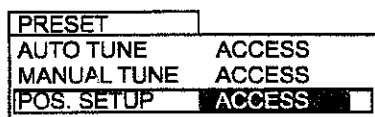
Please refer to page 21.



MANUAL TUNE

This is used to manually tune the television to a station or VCR.

Please refer to page 21.



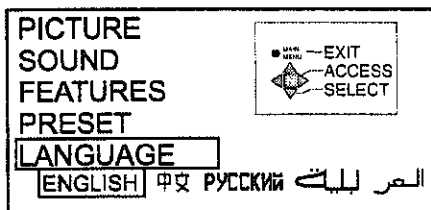
POS. SETUP

This is used to change various options such as the Colour System, Fine Tuning, Skip Function CH. Colour Set and POS. Change

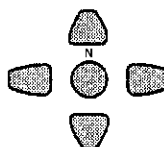
Please refer to page 22.

Language

This television allows you to select the on-screen display language. You can choose from English, Chinese, Russian and Arabic.



MAIN MENU



1. Press the "Main Menu" Button.
2. Highlight the "LANGUAGE" menu by pressing the Up (▲) or Down (▼) Button.
3. Use the Left (◀) or Right (▶) Buttons to select the language you want.

Teletext Operation

Teletext is only available on certain broadcast channels. The time taken to display the pages and sub-pages is set by the teletext transmitter and not by the television.

Teletext is also used for Closed Captioning of television programmes. Captions are used by people who are deaf, hearing impaired, learning English or viewing in a noisy environment.

Captions differ from foreign language subtitles in that they are coloured and positioned to indicate who is speaking, and provide information on music and sound effects which may be crucial to the understanding of the program. Closed captions can be found on Teletext Page 801.

Some broadcast stations will have a message on the screen to tell you that closed captions are not available for this programme. Some broadcast stations give you no indication at all.

TOP (Table Of Pages) mode

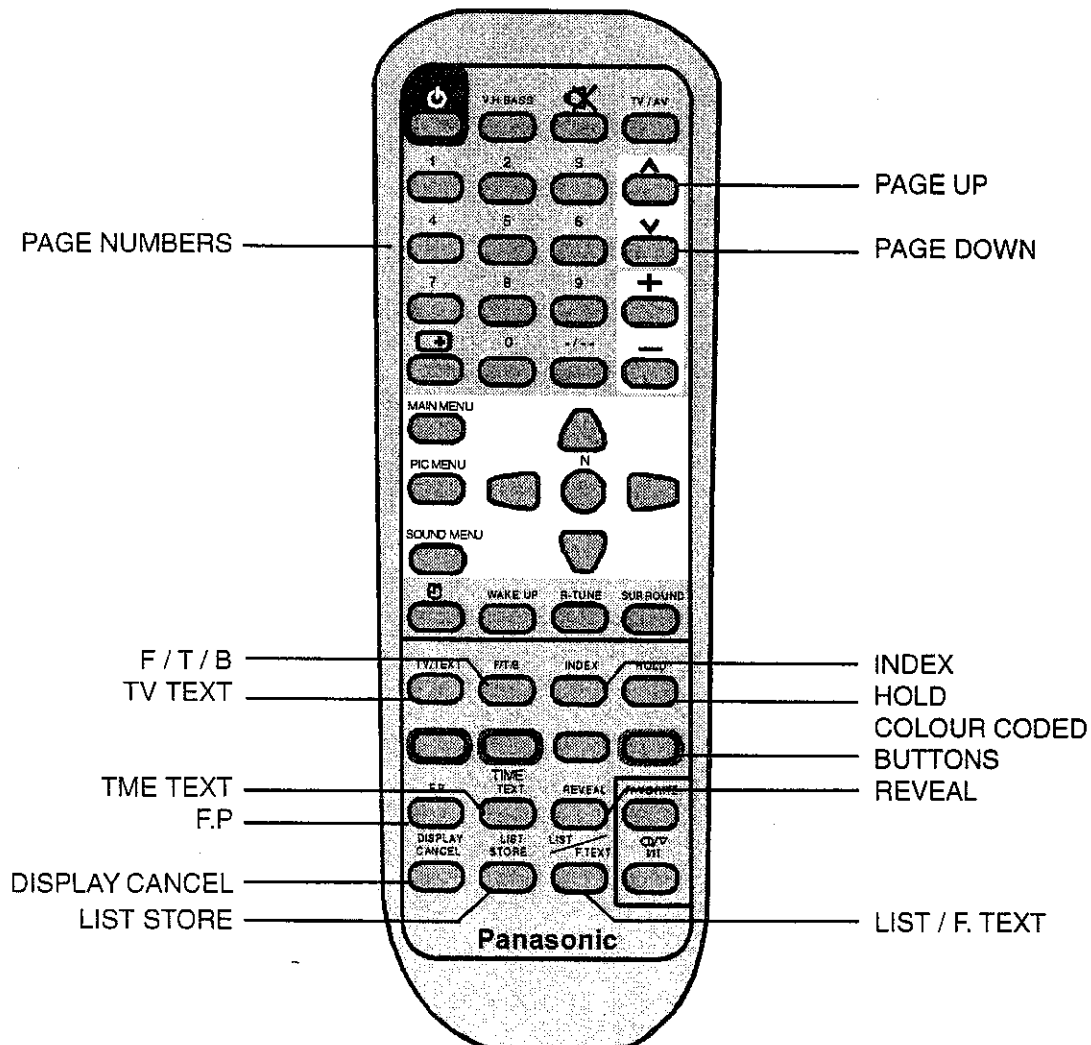
In TOPTEXT mode, the red button moves to the previous page number and the green button moves to the next page number. The yellow and blue buttons correspond to different subjects. These subjects can be accessed by Pushing the coloured button. This is the current preferred method of operation in Australia.

FASTEXT or FLOF (Full Level One Features) mode

In FASTEXT mode, four differently coloured subjects are displayed at the bottom of the screen. To access more information about one of these subjects, push the corresponding colour coded button on the remote control. This is the current preferred method of operation in New Zealand.

List mode

In List mode, four different coloured page numbers are shown at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. These coloured page numbers correspond to the colour coded buttons on the remote control.



Teletext Operation

PAGE NUMBER

Used to select the required Teletext page or sub-page number.

PAGE UP/DOWN

These buttons are used to select the next higher or lower page. Unused pages are skipped (bypassed).

F/T/B

F/T/B stands for Full / Top / Bottom. This button is used when difficulty is experienced in reading text on the screen. Pushing the F/T/B Button expands and displays the upper half of the screen. Pushing the F/T/B Button again expands and displays the lower half of the screen. Pushing the F/T/B Button a third time returns the display to normal condition.

TV/TEXT

This button is used to switch between TV and Teletext Modes. The Teletext screen will only appear if the selected channel is transmitting Teletext information.

COLOURED BUTTONS

In TOP TEXT mode these buttons correspond to different subjects.

In LIST mode they correspond to different page numbers.

TIME TEXT

When a Page has more than one screen (sub-page) of information, you may have to wait for some time before the sub-page you require becomes available. With this function it is possible to enter the number of the desired sub-page. Select Text Mode and choose a page. Press the TIME TEXT button. When the page has been received, the sub-pages can be viewed. The sub-page number must be entered as a four digit number e.g. sub-page 3 would be entered as 0003. Press TV/TEXT to return to television viewing.

F.P.

F.P. stands for Favourite Page. This feature will store a favourite page in the TV memory.

1. The TV must be in the LIST mode and receiving a teletext broadcast.
2. Push the Light Blue button.
3. Select the page number.
4. Push LIST/STORE until the blue number box at the bottom of the screen flashes black & white.
5. The page number is now stored.

Push F.P. to recall this page.

DISPLAY CANCEL

Push the Display Cancel Button to view the TV picture while waiting for a teletext page. When found, the page number will be displayed at the top left of the screen. Press the TV/TEXT button twice to display the page.


LIST STORE

In LIST mode the page numbers stored in the four coloured buttons can be changed for each teletext channel. Push a coloured button, enter the page number and push the List Store Button to store the page. Keep the button pressed until the coloured numbers at the bottom of the screen change colour.

INDEX

This button is used to return to the Main Index Page.

HOLD

When a selected Teletext page consists of a number of sub-pages the sub-pages will rotate automatically unless the "Hold" function has been activated. Pushing this button will cause the sub-page to stay on the screen. Pushing Hold again will cancel the operation. Whenever this function is activated the  symbol will appear on the screen.

REVEAL

Some Text pages contain concealed information, e.g. the solution to a puzzle. Press the Reveal Button to reveal this information.

LIST/ F TEXT

Push the List / F Text Button to switch between the List mode and TOP (or FASTEXT) mode.

AUTO TUNE

Important Information

This television has been factory tuned to all major city channels. Use the automatic tuning procedure only if you wish to reset ALL Programme Location Numbers. Refer to "Manual Tune" if you only want to retune one or two Programme Location Numbers.

The television should be switched ON and the TV/AV Switch set to TV.

When you start the automatic search, the television will automatically search for television broadcasts through both VHF bands and the UHF band. During this process all of the available television broadcast channels will be automatically allocated to sequential Programme Number locations starting with location 1.

1. Open the front panel door.
2. Push the PRE. Button once.
3. Press the Volume Up (+) Button to start the Auto Tune. Auto Tune will automatically allocate each received broadcast signal to a sequential Programme Number. The operation will cease when all available channels have been tuned.
4. Push the PRE. Button repeatedly until you return the television to normal operation.

PRESET	
AUTO TUNE	ACCESS <input type="checkbox"/>
MANUAL TUNE	ACCESS
POS. SETUP	ACCESS

MANUAL TUNE

Important Information

This television has been factory tuned to all major city channels. Use this procedure if you only want to retune one or two Programme Location Numbers.

The television should be switched ON and the TV/AV Switch set to TV.

1. Open the front panel door.
2. Push the PRE. Button twice.
3. Use the front panel Programme Number Up (^) or Down (v) Buttons to select the Programme Location Number you want to tune.
4. Press the Volume Up (+) or Volume Down (-) Button to start the Manual Tune.
5. If you do not want to save this broadcast station in this programme location number, repeat step 4.
6. When you are satisfied with your selection you can
 - Tune more stations by repeating steps 3, 4 and 5
 - Push the PRE. Button repeatedly until you return the television to normal operation.

PRESET	
AUTO TUNE	ACCESS
MANUAL TUNE	ACCESS <input type="checkbox"/>
POS. SETUP	ACCESS

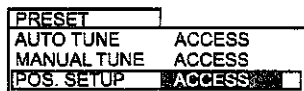
Tuning the Television to a VCR

1. Turn the VCR On and either start a known tape playing or set the VCR Test Signal, if fitted, to On (refer to the VCR operating instructions).
2. Repeat steps 2, 3 and 4 of the Manual Tuning procedure above. The television will treat the VCR as if it was a normal television broadcast station.

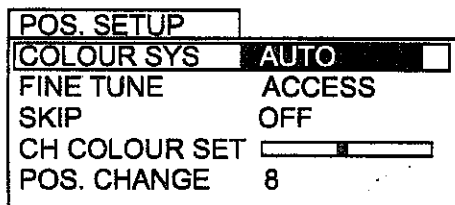
NOTES:

1. The antenna lead must be connected to the VCR and the VCR RF-Out must be connected to the TV RF-In. Please refer to page 27.
2. The picture and sound quality are usually much better if the VCR is connected using the AV Terminals. Please refer to page 27.

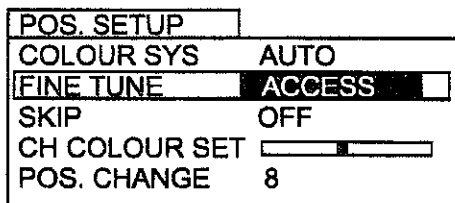
Pos. Setup



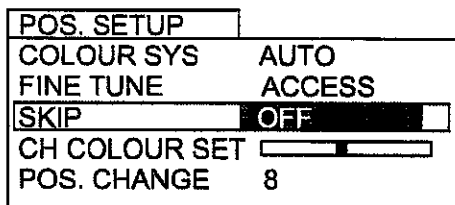
1. Open the front panel door.
2. Push the PRE. Button three times.
3. Press the Volume Up (+) Button to select the POS SETUP.
4. Push the PRE. Button repeatedly until you return the television to normal operation.



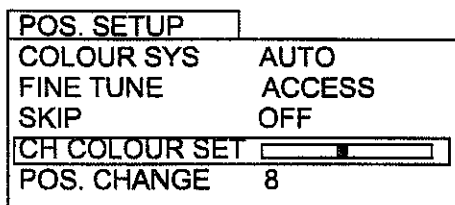
See page 23.



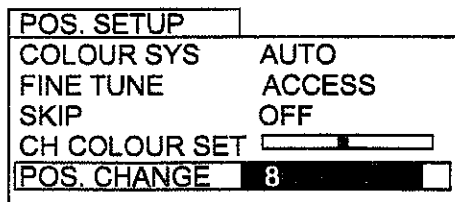
See page 23.



See page 24.



See page 24.



See page 25.

Colour Sys.

If a clear picture with correct colours cannot be obtained, a change to the Colour System may improve the picture. The Colour SYS is normally set to AUTO and generally does not need to be changed.

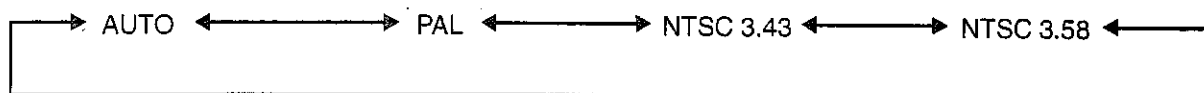
1. Select the POS. SETUP MENU (See page 22).

PRESET	
AUTO TUNE	ACCESS
MANUAL TUNE	ACCESS
POS. SETUP	ACCESS

2. Use the front panel PRE. Button to select the COLOUR SYS function.

3. Press the Volume Up (+) or Volume Down (-) Button to choose the correct COLOUR SYS. The options available are:

POS. SETUP	
COLOUR SYS	AUTO <input type="checkbox"/>
FINE TUNE	ACCESS
SKIP	OFF
CH COLOUR SET	<input type="text"/>
POS. CHANGE	8



4. Push the PRE. Button repeatedly until you return the television to normal operation.

NOTE: The Colour SYS is normally set to AUTO and generally does not need to be changed.

Fine Tune

In areas of poor reception or constant interference a slight adjustment to the tuning may improve the picture quality. The television should be turned ON and the TV/AV switch set to TV.

1. Use the front panel Programme Number Up (\wedge) or Down (\vee) Buttons to select the Programme Location Number you want to tune.
2. Select the POS. SETUP MENU (See page 22).
3. Use the front panel PRE. Button to select the FINE TUNE function.
4. Press the Volume Up (+) or Volume Down (-) Button to start the Fine Tune.
5. The fine tuning symbol (■) will appear to the left of the Programme Location Number indicator.
6. Push the PRE. Button repeatedly until you return the television to normal operation.

Cancelling the Fine Tune

Follow the Manual Tune procedure on page 21 to cancel the Fine Tuning.

Skip

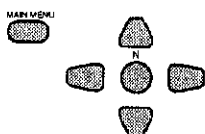
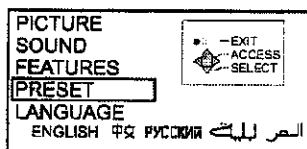
This option allows you to "SKIP" (bypass) the unused or undesired Programme Numbers. The Function is only applicable when the Programme Number Up or down buttons are pressed. The use of the remote control Direct Programme Number Buttons overrides the Skip function.

1. Use the front panel Programme Number Up (\wedge) or Down (\vee) Buttons to select the Programme Location Number you want to skip.
2. Select the POS. SETUP MENU (See page 22).
3. Use the front panel PRE. Button to select the SKIP function.
4. Press the Volume Up (+) or Volume Down (-) Button to switch to SKIP ON.
5. Push the PRE. Button repeatedly until you return the television to normal operation.

PRESET	
AUTO TUNE	ACCESS
MANUAL TUNE	ACCESS
POS. SETUP	ACCESS

POS. SETUP	
COLOUR SYS	AUTO
FINE TUNE	ACCESS
SKIP	OFF
CH COLOUR SET	
POS. CHANGE	8

Using the Remote Control



1. Press the "Main Menu" Button.
2. Highlight the "PRESET" menu by pressing the Up (\blacktriangle) or Down (\blacktriangledown) Button. Press the Left (\blacktriangleleft) or Right (\blacktriangleright) Buttons.
3. Use the Up (\blacktriangle) or Down (\blacktriangledown) Buttons to select the SKIP Option.
4. Use the Left (\blacktriangleleft) or Right (\blacktriangleright) Buttons to turn the SKIP On or Off.

PRESET	
AUTO TUNE	ACCESS
MANUAL TUNE	ACCESS
POS. SETUP	ACCESS

POS. SETUP	
COLOUR SYS	AUTO
FINE TUNE	ACCESS
SKIP	OFF
CH COLOUR SET	
POS. CHANGE	8

Cancelling the Skip

1. Use the remote control Direct Number Buttons (0 ~ 9) to select the skipped Programme Location Number.
2. Select the POS. SETUP MENU (See page 22).
3. Use the front panel PRE. Button to select the SKIP function.
4. Press the Volume Up (+) or Volume Down (-) Button to switch to SKIP OFF.
5. Push the PRE. Button repeatedly until you return the television to normal operation.

CH Colour Set

Colour density varying between broadcast channels can be adjusted to three levels for each channel received.

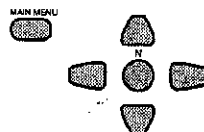
1. Use the front panel Programme Number Up (▲) or Down (▼) Buttons to select the Programme Location Number you want to set up.
2. Select the POS. SETUP MENU (See page 22).
3. Use the front panel PRE. Button to select the CH COLOUR function.
4. Press the Volume Up (+) or Volume Down (-) Button to switch between the three settings.
5. Push the PRE. Button repeatedly until you return the television to normal operation.

PRESET	
AUTO TUNE	ACCESS
MANUAL TUNE	ACCESS
POS. SETUP	ACCESS

POS. SETUP	
COLOUR SYS	AUTO
FINE TUNE	ACCESS
SKIP	OFF
CH COLOUR SET	<div><div></div></div>
POS. CHANGE	8

CH Colour Set Using the Remote Control

PICTURE	EXIT
SOUND	ACCESS
FEATURES	SELECT
PRESET	
LANGUAGE	
ENGLISH 中文 русский العربية	



POS. SETUP	
COLOUR SYS	AUTO
FINE TUNE	ACCESS
SKIP	OFF
CH COLOUR SET	<div><div></div></div>
POS. CHANGE	8

1. Press the "Main Menu" Button.
2. Highlight the "PRESET" menu by pressing the Up (▲) or Down (▼) Button. Press the Left (◀) or Right (▶) Buttons.
3. Use the Up (▲) or Down (▼) Buttons to select the CH COLOUR SET Option.
4. Use the Left (◀) or Right (▶) Buttons to switch between the three settings.

POS. Change

This option allows you to save the broadcast channel you are currently watching into any Programme Location Number. The television should be switched ON and the TV/AV Switch set to TV.

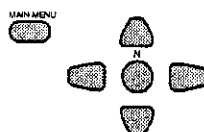
1. Select the POS. SETUP MENU (See page 22).
2. Use the remote control Direct Number Buttons (0 ~ 9) to select the new Programme Location Number.
3. Press the TV/AV button to store the channel.
4. Push the PRE. Button repeatedly until you return the television to normal operation.

PRESET	
AUTO TUNE	ACCESS
MANUAL TUNE	ACCESS
POS. SETUP	ACCESS

POS. SETUP	
COLOUR SYS	AUTO
FINE TUNE	ACCESS
SKIP	OFF
CH COLOUR SET	<div><div></div></div>
POS. CHANGE	8

POS. Change Using the Remote Control

PICTURE	EXIT
SOUND	ACCESS
FEATURES	SELECT
PRESET	
LANGUAGE	
ENGLISH 中文 русский العربية	



POS. SETUP	
COLOUR SYS	AUTO
FINE TUNE	ACCESS
SKIP	OFF
CH COLOUR SET	<div><div></div></div>
POS. CHANGE	8

1. Press the "Main Menu" Button.
2. Highlight the "PRESET" menu by pressing the Up (▲) or Down (▼) Button. Press the Left (◀) or Right (▶) Buttons.
3. Use the Up (▲) or Down (▼) Buttons to select the CH COLOUR SET Option.
4. Use the Left (◀) or Right (▶) Buttons to switch between the three settings.

Front Panel Connections

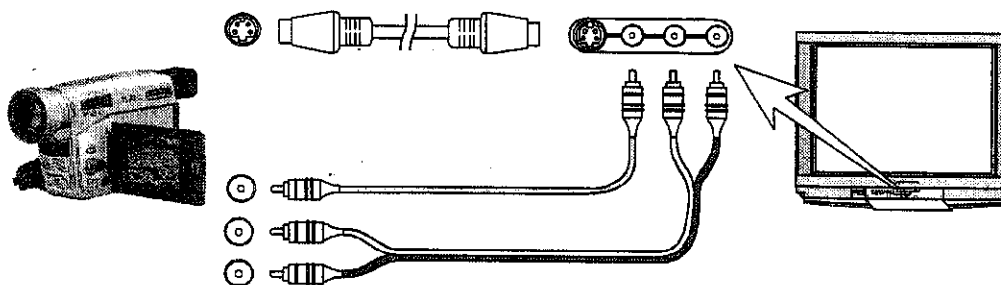
Headphones

NOTE: When a headphone plug is inserted into the headphone socket the internal speaker will be automatically disconnected: only the headphones will function.



VCRs, Cameras, Games etc.

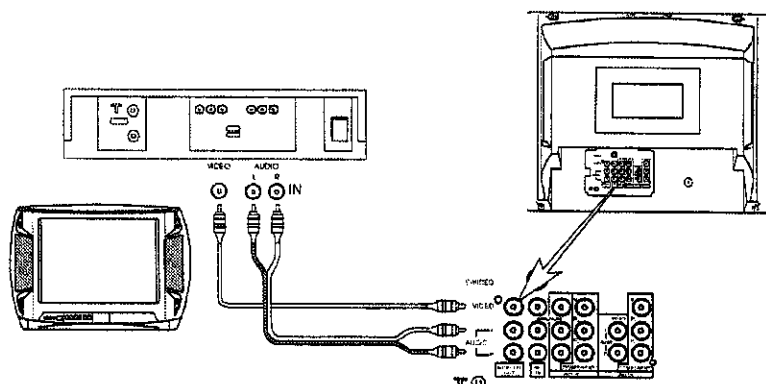
VCRs, cameras, games and other video sources can be connected to the television through either the front or rear AV input terminals.



Rear Panel Connections

Monitor Out

The Monitor Out terminals reproduce the signals currently on the television screen. The on-screen signals could be a television programme or signals connected to one of the AV inputs.



The Monitor Out facility can be used to allow one video source (videotape, video-disc etc.) to be connected to more than one television. Connect the Monitor out from this television to the AV Input of the second television.

If a video recorder is connected to the Monitor Out and video sources are connected to one or more of the AV inputs, the television becomes a visual display for tape editing or copying.

The Monitor Out Audio can also be connected to a stereo amplifier or other hi-fi equipment.

NOTE:

Never connect the same video recorder or other device to both the VIDEO IN and MONITOR OUT terminals of this television as this could cause incorrect operation.

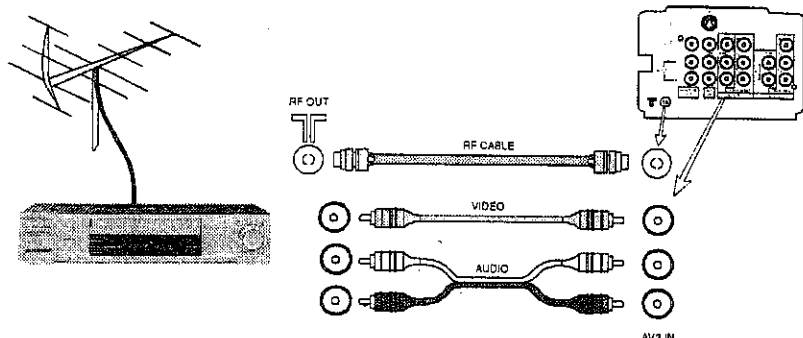
WARNING

Unauthorised recording of material from Television Broadcasts or from other video and / or audio sources may contravene copyright laws

Rear Panel Connections

Connecting Standard VCR Equipment to the AV Input

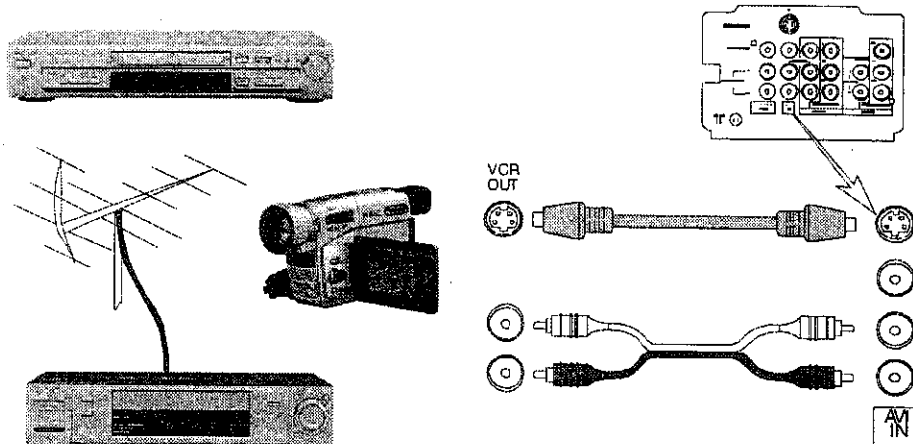
Most standard Video Cassette Recorders use RCA type video and audio connectors. If your VCR has different type connectors please refer to the VCR instruction book for details.



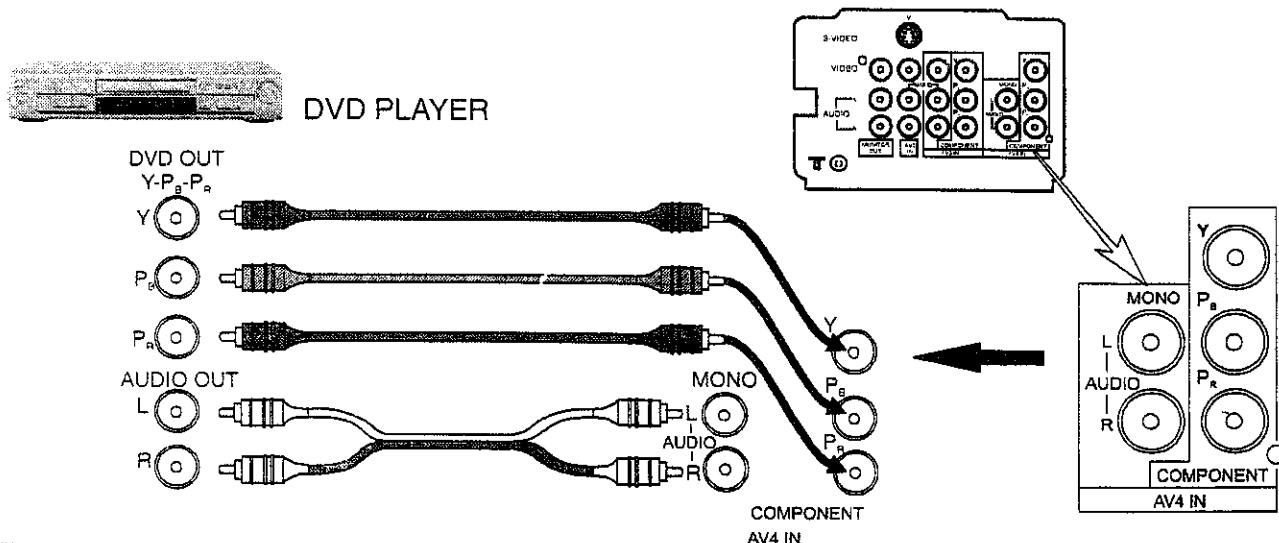
NOTE: A mono VCR can be connected to this television. Connect the VCR Audio out to the Left Audio input on the television. The sound will automatically be directed to both speakers.

Connecting S-Video Equipment to the AV Input

S-Video equipment uses a 4Pin Mini Din (Male) plug for the video and RCA plugs for the audio. When an S-Video cable is connected to an S-Video input terminal, the RCA video terminal for that AV position will be disconnected.



Connecting DVD Equipment to the AV Input



Customer Information

Frequently Asked Questions

Some minor problems can be corrected very quickly and easily without the cost of a service call. Panasonic has a Customer Care Centre that can answer most questions over the phone. Before you contact the Customer Care Centre with your question we have included the most commonly asked questions.

If the answer to your problem is not in this list, determine the symptoms and make a few simple checks as shown on the next page. The location of the nearest service centre can be obtained from the Panasonic Customer Care Centre on 132600.

Question: Why are my channels on 1,2,3,4,5?

Answer: Someone has performed an "Automatic Search" tune of your television. You have two options.

1. Use the POS. CHANGE feature described on page 25.
2. Retune each channel individually using the Manual Search Instructions.

Question: How do I get Channel 10?

Answer: You have three methods of selecting Channel 10

1. You can use the two digit channel selector on the remote control (- / -). Press this button followed by the number 1 button, then the 0 button.
2. You can press the 9 button followed by the channel up button (Λ).
3. You can tune channel 10 into another position such as programme location 0.

Question: My channel number is still on the screen. How do I turn it off?

Answer: If the channel number is a small green number on the top left of the screen, press the recall button (⊕) on the remote control. Any other channel number is one being broadcast by the television station. There is no way to turn this off.

Question: How do I tune my stations?

Answer: The instructions for tuning the stations are on page 21.

Question: I have done an auto tune because the book told me to. If I am only to do manual search why is automatic search first in the book?

Answer: The automatic search and the manual search each have specific uses. The reason for each is clearly described in the book. The reason that automatic search is described first is because this is the first option on the screen.

Question: How do I get rid of the blue screen?

Answer: Push the MAIN MENU Button. Press the Down (▼) Button to choose the FEATURES Menu and press the Right (▶) Button to access it. Push the Down (▼) Button to select the Blueback option. Press the Right (▶) Button to turn the Blueback off.

Question: When I skip a station why is a picture still coming up when I press the number that the channel is on?

Answer: The Skip operation only works when you use the Channel Up (Λ) or Down (V) Buttons.

Question: When I use the channel up or channel down why don't I get all the channels?

Answer: Some of the channels may be "Skipped". See page 24.

Question: Why doesn't the channel change when I press the channel button?

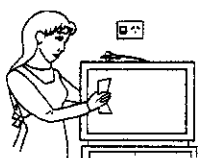
Answer: The television might be switched to Teletext mode. If it has been switched to text mode for closed captions and they are not being transmitted there may not be any indication on the screen to let you know that you are in Text mode. See page 19.

Question: I turned my television to Standby with the remote control and then I turned it off with the power switch. I turned the TV back on with the power switch but it's still in Standby and I can't find my remote control. How can I turn the TV back on?

Answer: Press the front panel Up (+ / Λ) or Down (- / V) button. See page 7.

Customer Information

Cleaning the Television

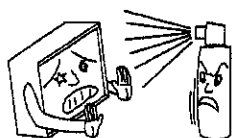


Cabinet and Picture Tube Care

The cabinet and picture tube can be kept in good condition by wiping with a clean, lint free cloth moistened with mild detergent and water. For safety, remove the plug from the power outlet when cleaning.



This television contains many plastic parts. For this reason **Do Not** use benzene, thinners or any solutions containing petroleum or other chemicals.

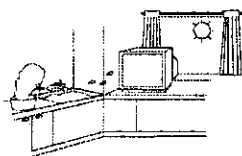


Do not spray insecticide or volatile solvent on the TV. **Do not** allow rubber and vinyl products to stay in contact with the TV for long periods of time. They may cause changes in paint quality.

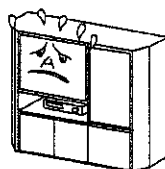


Remove dirt and soiling by wiping with a soft cloth. Even if the television is heavily soiled do not apply cleaner directly to the unit. Soak a cloth in a solution of neutral cleanser thinned with water. Wring out the cloth, wipe the television clean and finish by wiping with a dry cloth.

Locating the Television

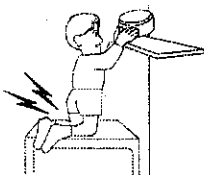


Do not place the TV in humid or dusty locations, or areas exposed to smoke or steam. Avoid exposing the television to direct sunlight or any other sources of direct heat.

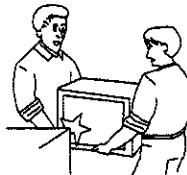


Adequate ventilation is essential. Allow a gap of at least 10cm around the TV, even in a cabinet or between shelves.

Caring for the Television



Do not stand or place heavy objects on top of the television.



Do not subject the TV to any physical shocks. Always remove any connector cables when moving the TV. When moving the TV from one place to another wrap it in something protective.


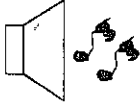
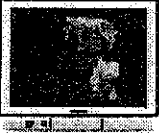
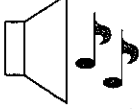
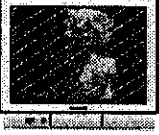
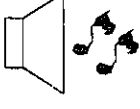

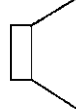
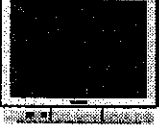
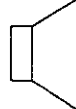





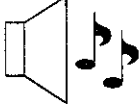

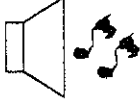
Caring for the Remote Control

The lens of the Remote Control should be kept clean and free of dirt and grease. Use a soft cloth moistened with water and a mild detergent to keep the lens clean.



Customer Information

Troubleshooting

Picture	Sound	Check
 Snowy Picture	 Noisy Sound	Aerial Location, Direction or Connections. If you are watching a tape playback check the state of the Video heads – they may need to be cleaned or replaced. The tape may be old. Check the tracking.
 Multiple Image	 Normal Sound	Aerial Location, Direction or Connections.
 Interference	 Noisy Sound	Electrical Appliances, Motorcycles, Cars or Fluorescent Lamps.
 Normal Picture	 No Sound	Volume (Check the Mute function) Check the Colour System Mode. Refer to page 23.
 No Picture	 No Sound	Not plugged in, switched OFF or Set to Stand By. Check volume, brightness, and contrast levels. Various internal safety devices may have been triggered. Switch the TV off for a few minutes and try again.
 No Colour	 Normal Sound	Colour Control. Colour System Mode. Refer to page 23. If the picture is from a tape playback, try adjusting the tracking.
 Scrambled	 Normal or Weak Sound	Retune the Television. Refer to page 21.
 Colour Patches	 Normal Sound	Magnetic Interference from unshielded equipment or the television may have been moved while it was switched ON. (Switch the television OFF with the main power switch and leave it OFF for about 30 minutes.
 Rolling Picture	 Noisy Sound	Colour System Mode. Refer to page 23.

Specifications

RF Channels	VHF 0 to 12	PAL B
	UHF 21 to 69	PAL G
	S'1 to S'3	HYPER TUNER
	S1 to S41	

Receiving Systems	1. PAL B/G	Reception of Off air broadcasts Playback from Video Tape Recorders
	2. NTSC 4.43	Playback from Special Video Tape
	3. NTSC 3.58	Recorders and Special Video Disc Players
	4. PAL 60Hz	(Via the AV Sockets) only.

Power Requirements 220 ~ 240Volts \pm 10% 50Hz

Power Consumption 168W Max 8W Standby

Chassis MX12

Tuning System Frequency synthesized, 100 Position (0 to 99).

Picture Tube 80cm Viewable (Measured diagonally)

Audio Output 2 Speaker 8W + 8W

Headphone Socket 3.5mm Stereo

Aerial Impedance 75 Ω Unbalanced coaxial

Video / Audio Terminals

AV1 IN (Rear)	:	S-Video, Video, Audio L/R Terminals
AV2 IN (Front)	:	S-Video, Video, Audio L/R Terminals
AV3 IN (Rear)	:	Video or Y/P _B /P _R , Audio L/R Terminals
AV4 IN (Rear)	:	Y/P _B /P _R , Audio L/R Terminals

Video / Audio Terminals

S-Video	Y: 1.0Vp-p 75 Ω	C: 0.3Vp-p 75 Ω
Video in	1.0Vp-p, 75 Ω	Audio in Approx. 400mVrms 47k Ω

Monitor Out

Video Out	1.0Vp-p, 75 Ω	Audio Out Approx. 400mVrms 1k Ω
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Accessories Supplied

- Remote Control EUR646932
- 2 Type 'AA' Batteries
- Instruction Manual TQB4A0160

Dimensions Height = 65.5cm Width = 80.0cm Depth = 54.05cm

Weight 52kg (Net)

Note: Design and Specifications are subject to change without notice.
Weight and Dimensions shown are approximate.

AUSTRALIA



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